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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|-------------------------|-----------------|----------------------|-------------------------|------------------|
| 10/054,438 | 01/22/2002 | Gregory D. U'ren | 00CON134P-DIV | 7270 |
| 25700 75 | 590 03/14/2006 | EXAMINER | | |
| FARJAMI & | FARJAMI LLP | PHAM, LONG | | |
| | MEDA AVENUE, SU | ART UNIT | PAPER NUMBER | |
| MISSION VIEJO, CA 92691 | | | | PAPER NUMBER |
| | | | 2814 | |
| • | | | DATE MAILED: 03/14/2006 | |

Please find below and/or attached an Office communication concerning this application or proceeding.

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| | Application No. | Applicant(s) | | | | |
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| Office Action Commons | 10/054,438 | U'REN, GREGORY D. | | | | |
| Office Action Summary | Examiner | Art Unit | | | | |
| | Long Pham | 2814 | | | | |
| The MAILING DATE of this communication ap Period for Reply | ppears on the cover sheet with the c | orrespondence address | | | | |
| A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING I - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statu Any reply received by the Office later than three months after the mailinearned patent term adjustment. See 37 CFR 1.704(b). | DATE OF THIS COMMUNICATION 136(a). In no event, however, may a reply be timed will apply and will expire SIX (6) MONTHS from the cause the application to become ABANDONE | N. nely filed the mailing date of this communication. D (35 U.S.C. § 133). | | | | |
| Status | | | | | | |
| 1)⊠ Responsive to communication(s) filed on 20 I | February 2006. | | | | | |
| ·— · · <u> </u> | | | | | | |
| | Since this application is in condition for allowance except for formal matters, prosecution as to the merits is | | | | | |
| closed in accordance with the practice under | closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. | | | | | |
| Disposition of Claims | | | | | | |
| 4)⊠ Claim(s) <u>18-47</u> is/are pending in the application | on. | | | | | |
| | 4a) Of the above claim(s) is/are withdrawn from consideration. | | | | | |
| 5)⊠ Claim(s) <u>46 and 47</u> is/are allowed. | | | | | | |
| 6) Claim(s) 18-22,24-40 and 42-45 is/are rejected | · | | | | | |
| 7)⊠ Claim(s) <u>23 and 41</u> is/are objected to. | | | | | | |
| 8) Claim(s) are subject to restriction and/ | or election requirement. | | | | | |
| Application Papers | | | | | | |
| 9) The specification is objected to by the Examin | · · | | | | | |
| 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. | | | | | | |
| Applicant may not request that any objection to the | | | | | | |
| Replacement drawing sheet(s) including the corre | ction is required if the drawing(s) is ob | jected to. See 37 CFR 1.121(d). | | | | |
| 11) The oath or declaration is objected to by the E | Examiner. Note the attached Office | Action or form PTO-152. | | | | |
| Priority under 35 U.S.C. § 119 | | 1 | | | | |
| 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). | | | | | | |
| a) ☐ All b) ☐ Some * c) ☐ None of: | | | | | | |
| Certified copies of the priority documer | nts have been received. | | | | | |
| Certified copies of the priority documer | nts have been received in Applicati | on No | | | | |
| 3. Copies of the certified copies of the price | ority documents have been receive | ed in this National Stage | | | | |
| • • | application from the International Bureau (PCT Rule 17.2(a)). | | | | | |
| * See the attached detailed Office action for a list of the certified copies not received. | | | | | | |
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| Attachment(s) | _ | | | | | |
| 1) X Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413) Paper No(s)/Mail Date | | | | | | |
| Notice of Dratisperson's Patent Drawing Review (PTO-946) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date Other: | | | | | | |
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DETAILED ACTION

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Response to Amendment

Applicant's request for reconsideration of the finality of the rejection of the last Office action is persuasive and, therefore, the finality of that action is withdrawn.

Response to Arguments

Applicant's arguments, see pages 2-4 of the response, filed 02/20/06, with respect to the rejection(s) of claim(s) 18, 19-22, 24, 25, 26-35, 36, 37-40, and 42-45 under USC 103(a) have been fully considered and are persuasive.

Therefore, the rejection has been withdrawn. However, upon further consideration, a new ground(s) of rejection is made in view of Nakashima (US patent 5,811,871).

Rejections and/or objections necessitated by the amendments *Claim Rejections - 35 USC § 103**

The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Claims 18 as presently amended and 19-22 and 24 are rejected under 35 U.S.C. 103(a) as being unpatentable over the applicant's admitted prior art (AAPA) in combination with Shimawaki (US patent 5,321,302) and Nakashima (US patent 5,811,871) (a newly cited reference).

AAPA in combination with Shimawaki teach the claimed invention. See the contents of office action dated 07/19/05.

With respect to amended claim 18, AAPA in combination with Shimawaki fail to teach a silicon oxide structure is formed between the base contact and a substrate and the base contact is in direct contact with the silicon oxide structure.

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Nakashima teaches a similar device in which a silicon oxide structure 9 is formed between a base contact 15 and a substrate and the base contact is in direct contact with silicon oxide structure. See fig. 4 and associated text.

It would have been obvious to one of <u>ordinary skill</u> in the art of making semiconductor devices to incorporate the above teaching of Nakashima into the device of AAPA and Shimawaki to provide electrical isolation from other devices on the substrate.

Claims 25 as presently amended and 26-35 are rejected under 35 U.S.C. 103(a) as being unpatentable over the applicant's admitted prior art (AAPA) in combination with Shimawaki (US patent 5,321,302) and Nakashima (US patent 5,811,871) (a newly cited reference).

AAPA in combination with Shimawaki teach the claimed invention. **See the** contents of office action dated 07/19/05.

With respect to amended claim 25, AAPA in combination with Shimawaki fail to teach a silicon oxide structure is formed between the base contact and a substrate and the base contact is in direct contact with the silicon oxide structure.

Nakashima teaches a similar device in which a silicon oxide structure 9 is formed between a base contact 15 and a substrate and the base contact is in direct contact with silicon oxide structure. See fig. 4 and associated text.

It would have been obvious to one of <u>ordinary skill</u> in the art of making semiconductor devices to incorporate the above teaching of Nakashima into the device of AAPA and Shimawaki to provide electrical isolation from other devices on the substrate.

Claims 36 as presently amended and 37-40, and 42-45 are rejected under 35 U.S.C. 103(a) as being unpatentable over the applicant's admitted prior art

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(AAPA) in combination with Shimawaki (US patent 5,321,302) and Nakashima (US patent 5,811,871) (a newly cited reference).

AAPA in combination with Shimawaki teach the claimed invention. See the contents of office action dated 07/19/05.

With respect to amended claim 36, AAPA in combination with Shimawaki fail to teach a silicon oxide structure is formed between the base contact and a substrate and the base contact is in direct contact with the silicon oxide structure.

Nakashima teaches a similar device in which a silicon oxide structure 9 is formed between a base contact 15 and a substrate and the base contact is in direct contact with silicon oxide structure. See fig. 4 and associated text.

It would have been obvious to one of <u>ordinary skill</u> in the art of making semiconductor devices to incorporate the above teaching of Nakashima into the device of AAPA and Shimawaki to provide electrical isolation from other devices on the substrate.

Allowable Subject Matter

Claims 45 and 47 are allowed.

Claims 23 and 41 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory

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period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Long Pham whose telephone number is 571-272-1714. The examiner can normally be reached on Mon-Frid, 10am to 5pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wael Fahmy can be reached on 571-272-1705. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct_uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Long Ham

Primary Examiner

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